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L	Hits	Search Text	DB	Time stamp	
Number 1	3	(shared adj2 runtime adj2 system)	USPAT; US-PGPUB;	2004/09/05 20:21	†
2	0	(shared adj2 runtime adj2 (data adj strucure))	EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/05 20:21	
3	0	(shared same runtime same (data adj strucure))	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/05 20:21	
4	207	(shared same runtime same (data))	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/05 20:22	
5	10	(shared same runtime same (class same representation))	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; _IBM_TDB	2004/09/05 20:33	
6	275	(Multi-tasking adj Virtual adj Machine) or (MVM)	USPAT; US-PGPUB; EPO; JPO; DERWENT; -IBM-TDB	2004/09/05 20:33	
	9	_((Multi=tasking_adj_Virtual_adjMachine)	USPAT-;	-2004/09/05	
8	199	or (MVM)) and java (class near4 initial\$7) same java same	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	20:37 2004/09/05 20:40	
		<pre>(mvm or (java or (multi-task\$3) or (multi adj task\$3) adj ((virtual adj machine) or VM)))</pre>	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	2004/09/05	
9	31	<pre>((class near4 initial\$7) same java same (mvm or (java or (multi-task\$3) or (multi adj task\$3) adj ((virtual adj machine) or VM)))) same runtime</pre>	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	20:40	
10	28	<pre>(((class near4 initial\$7) same java same (mvm or (java or (multi-task\$3) or (multi adj task\$3) adj ((virtual adj machine) or VM)))) same runtime) same (class near4 initializ\$7)</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/05 20:41	
11	9	·	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/05 20:54	
12	2	(class near4 initializ\$5) same (platform-independent) same (trig\$5 same class)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/05 20:56	
13	15	(class near4 initializ\$5) same (trig\$5 same class)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/09/05 21:23	

14	189	bootstrap\$3 same class	USPAT;	2004/09/05
			US-PGPUB;	21:23
			EPO; JPO; DERWENT;	
			IBM TDB	
2.5		bootstrap\$3 same class same initializ\$5	USPAT;	2004/09/05
15	35	bootstrap\$3 same Class same initiatizes	US-PGPUB;	21:24
}			EPO; JPO;	21.21
			DERWENT;	
	ł 1		IBM TDB	
16	1	bootstrap\$3 same class same initializ\$5	USPAT;	2004/09/05
10]	same ((virtual adj machine) or vm) same	US-PGPUB;	21:24
		thread\$3	EPO; JPO;	
		UII Cad o	DERWENT;	
		•	IBM_TDB	
17	1	bootstrap\$3 same class same initializ\$5	USPAT;	2004/09/05
		same ((virtual adj machine) or vm)	US-PGPUB;	21:25
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	2004/00/05
18	35	bootstrap\$3 same class same initializ\$5	USPAT; US-PGPUB;	2004/09/05
			EPO; JPO;	21.23
			DERWENT;	
			IBM TDB	
10	1	bootstrap\$3 near6 (class same initializ\$5	USPAT;	2004/09/05
19		bootstrapss heard (class same initializes	US-PGPUB;	21:26
	_		EPO; JPO;	
			DERWENT;	
			IBM_TDB	
20	2		USPAT;	2004/09/05
		=initiali2\$5-)	US-PGPUB;	_21:26
			EPO; JPO;	
	1	1	DERWENT;	1
	-	(//	IBM_TDB	2004/09/05
21	1	((bootstrap\$3 near2 class) same	IBM_TDB USPAT;	2004/09/05
21	1	((bootstrap\$3 near2 class) same initializ\$5)	IBM_TDB USPAT; US-PGPUB;	2004/09/05 21:27
21	1		IBM_TDB USPAT;	1
21	1		IBM_TDB USPAT; US-PGPUB; EPO; JPO;	21:27
21	1		IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	21:27
		initializ\$5)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	21:27
		initializ\$5)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	21:27
		initializ\$5)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	21:27
	12	<pre>initializ\$5) ((bootstrap\$3 near2 class)and initializ\$5)</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	21:27 2004/09/05 21:36
	12	<pre>initializ\$5) ((bootstrap\$3 near2 class)and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	21:27 2004/09/05 21:36 2004/09/05
22	12	<pre>initializ\$5) ((bootstrap\$3 near2 class)and initializ\$5)</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	21:27 2004/09/05 21:36
22	12	<pre>initializ\$5) ((bootstrap\$3 near2 class)and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	21:27 2004/09/05 21:36 2004/09/05
22	12	<pre>initializ\$5) ((bootstrap\$3 near2 class)and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	21:27 2004/09/05 21:36 2004/09/05
22	12	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	21:27 2004/09/05 21:36 2004/09/05
22	12	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency ((bootstrap\$3 near2 class) same</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	21:27 2004/09/05 21:36 2004/09/05 21:30
22	12	<pre>initializ\$5) ((bootstrap\$3 near2 class)and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; US-PGPUB; US-PGPUB;	21:27 2004/09/05 21:36 2004/09/05 21:30
22	12	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency ((bootstrap\$3 near2 class) same</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	21:27 2004/09/05 21:36 2004/09/05 21:30
22	12	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency ((bootstrap\$3 near2 class) same</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	21:27 2004/09/05 21:36 2004/09/05 21:30 2004/09/05 21:36
23	12	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency ((bootstrap\$3 near2 class) same initializ\$5)</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	21:27 2004/09/05 21:36 2004/09/05 21:30 2004/09/05 21:36
22	1 1	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency ((bootstrap\$3 near2 class) same initializ\$5)</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	21:27 2004/09/05 21:36 2004/09/05 21:30 2004/09/05 21:36
23	1 1	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency ((bootstrap\$3 near2 class) same initializ\$5)</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	21:27 2004/09/05 21:36 2004/09/05 21:30 2004/09/05 21:36
22 23 24	1 1	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency ((bootstrap\$3 near2 class) same initializ\$5)</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	21:27 2004/09/05 21:36 2004/09/05 21:30 2004/09/05 21:36
22 23 24	1 1	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency ((bootstrap\$3 near2 class) same initializ\$5) (bootstrap\$3 same class same initializ\$5)</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	21:27 2004/09/05 21:36 2004/09/05 21:30 2004/09/05 21:36 2004/09/05 21:36
22 23 24	1 1	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency ((bootstrap\$3 near2 class) same initializ\$5) (bootstrap\$3 same class same initializ\$5)</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	21:27 2004/09/05 21:36 2004/09/05 21:30 2004/09/05 21:36 2004/09/05 21:36
22 23 24 25	1 1 35	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency ((bootstrap\$3 near2 class) same initializ\$5) (bootstrap\$3 same class same initializ\$5)</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	21:27 2004/09/05 21:36 2004/09/05 21:30 2004/09/05 21:36 2004/09/05 21:36
22 23 24 25	1 1 35	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6_task\$3) same concurrency ((bootstrap\$3 near2 class) same initializ\$5) (bootstrap\$3 same class same initializ\$5)</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	21:27 2004/09/05 21:36 2004/09/05 21:30 2004/09/05 21:36 2004/09/05 21:36
22 23 24 25	1 1 35	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6_task\$3) same concurrency ((bootstrap\$3 near2 class) same initializ\$5) (bootstrap\$3 same class same initializ\$5)</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	21:27 2004/09/05 21:36 2004/09/05 21:30 2004/09/05 21:36 2004/09/05 21:36
22 23 24 25 26	12 1 35	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency ((bootstrap\$3 near2 class) same initializ\$5) (bootstrap\$3 same class same initializ\$5) (bootstrap\$3 same class same initializ\$5) </pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	21:27 2004/09/05 21:36 2004/09/05 21:30 2004/09/05 21:36 2004/09/05 21:36 2004/09/05 21:48
22 23 24 25	12 1 35	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency ((bootstrap\$3 near2 class) same initializ\$5) (bootstrap\$3 same class same initializ\$5) (bootstrap\$3 same class same initializ\$5) (bootstrap\$3 same class same initializ\$5) bootstrap\$3 same thread\$3 same</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	21:27 2004/09/05 21:36 2004/09/05 21:30 2004/09/05 21:36 2004/09/05 21:48 2004/09/05
22 23 24 25 26	12 1 35	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency ((bootstrap\$3 near2 class) same initializ\$5) (bootstrap\$3 same class same initializ\$5) (bootstrap\$3 same class same initializ\$5) </pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	21:27 2004/09/05 21:36 2004/09/05 21:30 2004/09/05 21:36 2004/09/05 21:36 2004/09/05 21:48
22 23 24 25	12 1 35	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency ((bootstrap\$3 near2 class) same initializ\$5) (bootstrap\$3 same class same initializ\$5) (bootstrap\$3 same class same initializ\$5) (bootstrap\$3 same class same initializ\$5) bootstrap\$3 same thread\$3 same</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	21:27 2004/09/05 21:36 2004/09/05 21:30 2004/09/05 21:36 2004/09/05 21:48 2004/09/05
22 23 24 25 26	12 1 35	<pre>initializ\$5) ((bootstrap\$3 near2 class) and initializ\$5) (bootstrap\$3 near2 class) same (startup\$3 near6 task\$3) same concurrency ((bootstrap\$3 near2 class) same initializ\$5) (bootstrap\$3 same class same initializ\$5) (bootstrap\$3 same class same initializ\$5) (bootstrap\$3 same class same initializ\$5) bootstrap\$3 same thread\$3 same</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	21:27 2004/09/05 21:36 2004/09/05 21:30 2004/09/05 21:36 2004/09/05 21:48 2004/09/05

28		0	bootstrap\$3 same conceurren\$3	USPAT;	2004/09/05
				US-PGPUB;	21:49
				EPO; JPO;	<u> </u>
				DERWENT;	
29		_	bootstrap\$4 same conceurren\$3	<pre>IBM_TDB USPAT;</pre>	2004/09/05
29		0	bootstrap\$4 same conceutren\$5	· ·	21:49
				US-PGPUB; EPO; JPO;	41.49
				DERWENT;	
				IBM TDB	ŀ
30		55	bootstrap\$4 same concurren\$3	USPAT;	2004/09/05
		00	, and the same of	US-PGPUB;	21:49
				EPO; JPO;	
				DERWENT;	
				IBM_TDB	
31		4	bootstrap\$4 same concurren\$3 same	USPAT;	2004/09/05
			thread\$3	US-PGPUB;	22:08
1	:			EPO; JPO;	
				DERWENT;	
22		2	aggign¢2 gamo traluo gamo initializar	IBM_TDB	2004/00/05
33		0	assign\$3 same value same initializer same class same JAVA	USPAT; US-PGPUB;	2004/09/05 22:09
			CTOSS SOME NAVA	EPO; JPO;	2.4.03
				DERWENT;	
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32		11	assign\$3 same value same initializer same	USPAT;	2004/09/05
			class	-US-PGPUB;	22:10
				EPO; JPO;	
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				IBM_TDB	
34			assign\$3 same value same (initializer	USPAT;	2004/09/05
			near4_class)	=US=PGPUB;==	-22:25
				EPO; JPO;	
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				י אנויני מאון ו	
35		1	set\$4 same (binary adi yariable) same	IBM_TDB USPAT:	2004/09/05
35		1	set\$4 same (binary adj variable) same zero same (start\$3 same (multitasking adj	USPĀT;	2004/09/05
35		1	zero same (start\$3 same (multitasking adj	USPĀT; US-PGPUB;	2004/09/05 22:28
35		1		USPĀT;	
35			zero same (start\$3 same (multitasking adj virtual adj machine))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	22:28
35 36			zero same (start\$3 same (multitasking adj virtual adj machine)) set\$4 same (binary adj variable) same	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	22:28
2 2 3 4 4			<pre>zero same (start\$3 same (multitasking adj virtual adj machine)) set\$4 same (binary adj variable) same zero same (start\$3 same (virtual adj</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	22:28
2 2 3 4 4			zero same (start\$3 same (multitasking adj virtual adj machine)) set\$4 same (binary adj variable) same	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	22:28
2 2 3 4 4			<pre>zero same (start\$3 same (multitasking adj virtual adj machine)) set\$4 same (binary adj variable) same zero same (start\$3 same (virtual adj</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	22:28
36		1	zero same (start\$3 same (multitasking adj virtual adj machine)) set\$4 same (binary adj variable) same zero same (start\$3 same (virtual adj machine))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/05 22:29
2 2 3 4 4		1	<pre>zero same (start\$3 same (multitasking adj virtual adj machine)) set\$4 same (binary adj variable) same zero same (start\$3 same (virtual adj machine)) set\$4 same (binary adj variable) same</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	22:28 2004/09/05 22:29 2004/09/05
36		1	zero same (start\$3 same (multitasking adj virtual adj machine)) set\$4 same (binary adj variable) same zero same (start\$3 same (virtual adj machine))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/09/05 22:29
36		1	<pre>zero same (start\$3 same (multitasking adj virtual adj machine)) set\$4 same (binary adj variable) same zero same (start\$3 same (virtual adj machine)) set\$4 same (binary adj variable) same</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	22:28 2004/09/05 22:29 2004/09/05
36		1	<pre>zero same (start\$3 same (multitasking adj virtual adj machine)) set\$4 same (binary adj variable) same zero same (start\$3 same (virtual adj machine)) set\$4 same (binary adj variable) same</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	22:28 2004/09/05 22:29 2004/09/05
36		0	zero same (start\$3 same (multitasking adj virtual adj machine)) set\$4 same (binary adj variable) same zero same (start\$3 same (virtual adj machine)) set\$4 same (binary adj variable) same zero_same_(start\$3_same_(_vm))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	22:28 2004/09/05 22:29 2004/09/05 22:29
36		0	zero same (start\$3 same (multitasking adj virtual adj machine)) set\$4 same (binary adj variable) same zero same (start\$3 same (virtual adj machine)) set\$4 same (binary adj variable) same zero_same_(start\$3_same_(_vm))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISM_TDB USPAT;	22:28 2004/09/05 22:29 2004/09/05
36		0	zero same (start\$3 same (multitasking adj virtual adj machine)) set\$4 same (binary adj variable) same zero same (start\$3 same (virtual adj machine)) set\$4 same (binary adj variable) same zero_same_(start\$3_same_(_vm))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	22:28 2004/09/05 22:29 2004/09/05 22:29
36		0	zero same (start\$3 same (multitasking adj virtual adj machine)) set\$4 same (binary adj variable) same zero same (start\$3 same (virtual adj machine)) set\$4 same (binary adj variable) same zero_same_(start\$3_same_(_vm))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	22:28 2004/09/05 22:29 2004/09/05 22:29
36		0	zero same (start\$3 same (multitasking adj virtual adj machine)) set\$4 same (binary adj variable) same zero same (start\$3 same (virtual adj machine)) set\$4 same (binary adj variable) same zero_same_(start\$3_same_(_vm))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	22:28 2004/09/05 22:29 2004/09/05 22:29
36		0	zero same (start\$3 same (multitasking adj virtual adj machine)) set\$4 same (binary adj variable) same zero same (start\$3 same (virtual adj machine)) set\$4 same (binary adj variable) same zero_same_(start\$3_same_(_vm))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	22:28 2004/09/05 22:29 2004/09/05 22:29
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53 69 java and (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)) 54 5 java same (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)) 55 0 java same (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)) 55 0 java same (bootstrap\$4 same null) 56 0 java same (bootstrap\$4 same null) 57 0 java same (bootstrap\$4 same null) 58 0 java same (bootstrap\$4 same null) 59 0 java same (bootstrap\$4 same null)	50	23	<pre>java same bootstrap\$4 same initializ\$5 java same bootstrap\$4 same initializ\$5 same (getstatic or putstatic or invokestatic or new) java same bootstrap\$4 same initializ\$5 and (getstatic or putstatic or</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	22:52 2004/09/05 22:53 2004/09/05 22:53	
53 69 java and (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)) 54 5 java same (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)) 54 5 java same (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)) 55 6 java same (bootstrap\$4 same null) 5 java same (bootstrap\$4 same null) 5 java same (bootstrap\$4 same null) 5 java same (bootstrap\$4 same null) 5 java same (bootstrap\$4 same null) 6 java same (bootstrap\$4 same null) 7 java same (bootstrap\$4 same null) 8 java same (bootstrap\$4 same null) 9 java same (bootstrap\$4 same null) 9 java same (bootstrap\$4 same null)	50	23	<pre>java same bootstrap\$4 same initializ\$5 java same bootstrap\$4 same initializ\$5 same (getstatic or putstatic or invokestatic or new) java same bootstrap\$4 same initializ\$5 and (getstatic or putstatic or</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	22:52 2004/09/05 22:53 2004/09/05 22:53	
and (getstatic or putstatic or invokestatic or new)) 54 5 java same (bootstrap\$4 same initializ\$5	50	23	<pre>java same bootstrap\$4 same initializ\$5 java same bootstrap\$4 same initializ\$5 same (getstatic or putstatic or invokestatic or new) java same bootstrap\$4 same initializ\$5 and (getstatic or putstatic or</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	22:52 2004/09/05 22:53 2004/09/05 22:53	
invokestatic or new)) 54 5 java same (bootstrap\$4 same initializ\$5	50 51 52	23	<pre>java same bootstrap\$4 same initializ\$5 java same bootstrap\$4 same initializ\$5 same (getstatic or putstatic or invokestatic or new) java same bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	22:52 2004/09/05 22:53 2004/09/05 22:53 2004/09/05 22:54	
54 5 java same (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)) 55 0 java same (bootstrap\$4 same null) 56 0 java same (bootstrap\$4 same null) 57 0 java same (bootstrap\$4 same null) 58 0 java same (bootstrap\$4 same null) 59 0 java same (bootstrap\$4 same null) 50 0 java same (bootstrap\$4 same null) 50 0 java same (bootstrap\$4 same null)	50 51 52	23	<pre>java same bootstrap\$4 same initializ\$5 java same bootstrap\$4 same initializ\$5 same (getstatic or putstatic or invokestatic or new) java same bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new) java and (bootstrap\$4 same initializ\$5</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	22:52 2004/09/05 22:53 2004/09/05 22:53 2004/09/05 2004/09/05	
54 5 java same (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)) 55 0 java same (bootstrap\$4 same null) 56 0 java same (bootstrap\$4 same null) 57 0 java same (bootstrap\$4 same null) 58 0 java same (bootstrap\$4 same null) 59 0 java same (bootstrap\$4 same null) 50 0 java same (bootstrap\$4 same null) 50 0 java same (bootstrap\$4 same null)	50 51 52	23	java same bootstrap\$4 same initializ\$5 java same bootstrap\$4 same initializ\$5 same (getstatic or putstatic or invokestatic or new) java same bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new) java and (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	22:52 2004/09/05 22:53 2004/09/05 22:53 2004/09/05 2004/09/05	
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and (getstatic or putstatic or invokestatic or new)) 55 0 java same (bootstrap\$4 same null) US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; EPO; JPO; DERWENT;	50 51 52	23	java same bootstrap\$4 same initializ\$5 java same bootstrap\$4 same initializ\$5 same (getstatic or putstatic or invokestatic or new) java same bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new) java and (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	22:52 2004/09/05 22:53 2004/09/05 22:53 2004/09/05 2004/09/05	
invokestatic or new)) EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; DERWENT; DERWENT;	50 51 52 53	23	<pre>java same bootstrap\$4 same initializ\$5 java same bootstrap\$4 same initializ\$5 same (getstatic or putstatic or invokestatic or new) java same bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new) java and (bootstrap\$4 same initializ\$5 and (getstatic or new)</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	22:52 2004/09/05 22:53 2004/09/05 22:53 2004/09/05 22:54	
DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	50 51 52 53	23	<pre>java same bootstrap\$4 same initializ\$5 java same bootstrap\$4 same initializ\$5 same (getstatic or putstatic or invokestatic or new) java same bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new) java and (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)) java same (bootstrap\$4 same initializ\$5 and (getstatic or new))</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	22:52 2004/09/05 22:53 2004/09/05 22:53 2004/09/05 22:54 2004/09/05 22:54	
java same (bootstrap\$4 same null) IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; DERWENT; DERWENT; DERWENT; US-PGPUB; DERWENT; DERWENT	50 51 52 53	23	<pre>java same bootstrap\$4 same initializ\$5 java same bootstrap\$4 same initializ\$5 same (getstatic or putstatic or invokestatic or new) java same bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new) java and (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)) java same (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new))</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	22:52 2004/09/05 22:53 2004/09/05 22:53 2004/09/05 22:54 2004/09/05 22:54	
55 0 java same (bootstrap\$4 same null) USPAT; 2004/09/05 US-PGPUB; EPO; JPO; DERWENT;	50 51 52	23	<pre>java same bootstrap\$4 same initializ\$5 java same bootstrap\$4 same initializ\$5 same (getstatic or putstatic or invokestatic or new) java same bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new) java and (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)) java same (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new))</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	22:52 2004/09/05 22:53 2004/09/05 22:53 2004/09/05 22:54 2004/09/05 22:54	
US-PGPUB; EPO; JPO; DERWENT;	50 51 52	23	<pre>java same bootstrap\$4 same initializ\$5 java same bootstrap\$4 same initializ\$5 same (getstatic or putstatic or invokestatic or new) java same bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new) java and (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)) java same (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new))</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	22:52 2004/09/05 22:53 2004/09/05 22:53 2004/09/05 22:54 2004/09/05 22:54	
US-PGPUB; 23:39 EPO; JPO; DERWENT;	50 51 52 53	23	<pre>java same bootstrap\$4 same initializ\$5 java same bootstrap\$4 same initializ\$5 same (getstatic or putstatic or invokestatic or new) java same bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new) java and (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)) java same (bootstrap\$4 same initializ\$5 and (getstatic or new))</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	22:52 2004/09/05 22:53 2004/09/05 22:53 2004/09/05 22:54 2004/09/05 22:54	
DERWENT;	50 51 52 53	23	<pre>java same bootstrap\$4 same initializ\$5 java same bootstrap\$4 same initializ\$5 same (getstatic or putstatic or invokestatic or new) java same bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new) java and (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)) java same (bootstrap\$4 same initializ\$5 and (getstatic or new))</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	22:52 2004/09/05 22:53 2004/09/05 22:53 2004/09/05 22:54 2004/09/05 22:54 2004/09/05 23:00	
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	50 51 52 53	23	<pre>java same bootstrap\$4 same initializ\$5 java same bootstrap\$4 same initializ\$5 same (getstatic or putstatic or invokestatic or new) java same bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new) java and (bootstrap\$4 same initializ\$5 and (getstatic or putstatic or invokestatic or new)) java same (bootstrap\$4 same initializ\$5 and (getstatic or new))</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	22:52 2004/09/05 22:53 2004/09/05 22:53 2004/09/05 22:54 2004/09/05 22:54 2004/09/05 23:00	
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56	67	bootstrap\$4 same null	USPAT;	2004/09/05
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57	11	(bootstrap\$4 same null) same initial\$7		1 ' '
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58	3	((bootstrap\$4 same null) same initial\$7)	USPAT;	2004/09/05
		and (multi-task\$3 or multitask\$3)	US-PGPUB;	23:21
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59	4	((bootstrap\$4 near4 class) same	USPAT;	2004/09/05
39	4		i .	
		initial\$7)	US-PGPUB;	23:25
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			DERWENT;	i I
1			IBM TDB	
68	0	java same (class adj3 intializ\$5) same	IBM_TDB	2004/09/06
68	0) · · · · · · · · · · · · · · · · · ·	IBM_TDB USPAT;	2004/09/06
68	0	java same (class adj3 intializ\$5) same assign\$3 same value	IBM_TDB USPAT; US-PGPUB;	2004/09/06 00:13
68	0		IBM_TDB USPAT; US-PGPUB; EPO; JPO;	1
68	0		IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	1
		assign\$3 same value	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	00:13
69	0	assign\$3 same value java same (class adj3 intializ\$5) same	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	2004/09/06
		assign\$3 same value	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	00:13
		assign\$3 same value java same (class adj3 intializ\$5) same	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/09/06
		assign\$3 same value java same (class adj3 intializ\$5) same	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/09/06
		assign\$3 same value java same (class adj3 intializ\$5) same	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/09/06
		assign\$3 same value java same (class adj3 intializ\$5) same assign\$3	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/09/06
69	0	assign\$3 same value java same (class adj3 intializ\$5) same	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	00:13 2004/09/06 00:13
69	0	assign\$3 same value java same (class adj3 intializ\$5) same assign\$3	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	00:13 2004/09/06 00:13 2004/09/06
69	0	assign\$3 same value java same (class adj3 intializ\$5) same assign\$3	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	00:13 2004/09/06 00:13 2004/09/06
69	0	assign\$3 same value java same (class adj3 intializ\$5) same assign\$3	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	00:13 2004/09/06 00:13 2004/09/06
69 70	0	<pre>java same (class adj3 intializ\$5) same assign\$3 (class adj3 intializ\$5) same assign\$3</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	00:13 2004/09/06 00:13 2004/09/06 00:13
69	0	assign\$3 same value java same (class adj3 intializ\$5) same assign\$3	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	00:13 2004/09/06 00:13 2004/09/06 00:13
69 70	0	<pre>java same (class adj3 intializ\$5) same assign\$3 (class adj3 intializ\$5) same assign\$3</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	00:13 2004/09/06 00:13 2004/09/06 00:13
69 70	0	<pre>java same (class adj3 intializ\$5) same assign\$3 (class adj3 intializ\$5) same assign\$3</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	00:13 2004/09/06 00:13 2004/09/06 00:13
69 70	0	<pre>java same (class adj3 intializ\$5) same assign\$3 (class adj3 intializ\$5) same assign\$3</pre>	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	00:13 2004/09/06 00:13 2004/09/06 00:13

72	30	(US-6038597-\$ or US-6167383-\$ or	USPAT;	2004/09/06
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		US-6718373-\$ or US-6052720-\$ or	DERWENT;	
		US-6714937-\$ or US-6117187-\$ or	IBM TDB	
	ĺ	US-6253300-\$ or US-6510402-\$ or	-	
		US-6615365-\$ or US-6330653-\$ or		
		US-6230285-\$ or US-5787491-\$ or		
		US-6581191-\$ or US-6067413-\$ or		
		US-6704927-\$ or US-5995753-\$ or		
		US-6570564-\$ or US-6279109-\$ or		
		US-5884083-\$ or US-5432900-\$ or		
		US-5729710-\$ or US-6633837-\$ or		
		US-6085034-\$).did. or (US-20040025154-\$		
		or US-20010003824-\$ or		
		US-20040015921-\$).did. or		
		(WO-200161486-\$).did. or (NB940415).tban.		
75	2	((US-6038597-\$ or US-6167383-\$ or	USPAT	2004/09/06
		US-5991543-\$ or US-5995757-\$ or		00:56
		US-6718373-\$ or US-6052720-\$ or		
		US-6714937-\$ or US-6117187-\$ or		
		US-6253300-\$ or US-6510402-\$ or		
		US-6615365-\$ or US-6330653-\$ or		
		US-6230285-\$ or US-5787491-\$ or		
		US-6581191-\$ or US-6067413-\$ or		
		US-6704927-\$ or US-5995753-\$ or		
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		US-5729710-\$ or US-6633837-\$ or		•
		US-6085034-\$).did. or (US-20040025154-\$		
		or US-20010003824-\$ or		
		US-20040015921-\$) did. or		
2002 - 1980 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1		_(WO=200161486=\$).did.or		
		(NB940415).tban.) and superclass		
-	1	("20040025154").PN.	USPAT;	2004/04/07
			US-PGPUB	20:33
-	4	(("5991543") or ("5995757") or	USPAT;	2004/04/05
	ł.	/!! CO 2 9 E 0 7 !! C 1 C 7 2 9 2 !! \ DNI	TIG DODIED	14-20
1		("6038597") or ("6167383")).PN.	US-PGPUB	14:28
_	1	("6038597") or ("6167383")).PN.	USPAT;	2004/04/07
_		("6714937").PN.	USPAT; US-PGPUB	2004/04/07 20:38
_	3	("6714937").PN. (("6052720") or ("6117187") or	USPAT; US-PGPUB USPAT;	2004/04/07 20:38 2004/04/07
_	3	("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN.	USPAT; US-PGPUB USPAT; US-PGPUB	2004/04/07 20:38 2004/04/07 20:38
- -		("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same	USPAT; US-PGPUB USPAT; US-PGPUB USPAT;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09
-	3	("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN.	USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB;	2004/04/07 20:38 2004/04/07 20:38
-	3	("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same	USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09
-	3	("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same	USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09
-	3	("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls.	USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29
-	3	("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same	USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29
-	3	("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls.	USPAT; US-PGPUB USPAT; US-PGPUB; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29
-	3	("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same	USPAT; US-PGPUB USPAT; US-PGPUB; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29
-	3	("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same	USPAT; US-PGPUB USPAT; US-PGPUB; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29
-	3 0	("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3	USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30
-	3	("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same	USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30
-	3 0	("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3	USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30
-	3 0	("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same	USPAT; US-PGPUB USPAT; US-PGPUB; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30
-	3 0	("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same	USPAT; US-PGPUB USPAT; US-PGPUB; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30
-	3 0 38	<pre>("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3</pre>	USPAT; US-PGPUB USPAT; US-PGPUB; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30
-	3 0	("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same	USPAT; US-PGPUB USPAT; US-PGPUB; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30 2004/04/09 17:24
	3 0 38	<pre>("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3</pre>	USPAT; US-PGPUB USPAT; US-PGPUB; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30
	3 0 38	<pre>("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3</pre>	USPAT; US-PGPUB USPAT; US-PGPUB; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30 2004/04/09 17:24
	3 0 38	<pre>("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3</pre>	USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30 2004/04/09 17:24
	3 0 38 4 571	<pre>("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3 access\$3 same network\$3 same security</pre>	USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30 2004/04/09 17:24
	3 0 38	<pre>("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3</pre>	USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30 2004/04/09 17:24 2004/04/09 17:25
	3 0 38 4 571	<pre>("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3 access\$3 same network\$3 same security</pre>	USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30 2004/04/09 17:24
	3 0 38 4 571	<pre>("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3 access\$3 same network\$3 same security</pre> partition same storage same software	USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30 2004/04/09 17:24 2004/04/09 17:25
	3 0 38 4 571	<pre>("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3 access\$3 same network\$3 same security</pre> partition same storage same software	USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30 2004/04/09 17:24 2004/04/09 17:25
	3 0 38 4 571	<pre>("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3 (partition same storage same software partition same storage same software partition same storage same software same image</pre>	USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30 2004/04/09 17:24 2004/04/09 17:25
	3 0 38 4 571	<pre>("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3 same security</pre> <pre>partition same storage same software</pre> <pre>partition same storage same software same image</pre>	USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30 2004/04/09 17:24 2004/04/09 17:25
	3 0 38 4 571	<pre>("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3 (partition same storage same software partition same storage same software partition same storage same software same image</pre>	USPAT; US-PGPUB USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30 2004/04/09 17:24 2004/04/09 17:25
	3 0 38 4 571	<pre>("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3 same security</pre> <pre>partition same storage same software</pre> <pre>partition same storage same software same image</pre>	USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30 2004/04/09 17:24 2004/04/09 17:25
	3 0 38 4 571	<pre>("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3 same security</pre> <pre>partition same storage same software</pre> <pre>partition same storage same software same image</pre>	USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30 2004/04/09 17:24 2004/04/09 17:25
	3 0 38 4 571	<pre>("6714937").PN. (("6052720") or ("6117187") or ("6718373")).PN. ((log\$4 adj in) same access\$3 same network\$3) and 717/\$.ccls. (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3 (log\$4 adj in) same access\$3 same network\$3 same security</pre> <pre>partition same storage same software</pre> <pre>partition same storage same software same image</pre>	USPAT; US-PGPUB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/04/07 20:38 2004/04/07 20:38 2004/04/09 16:29 2004/04/09 16:30 2004/04/09 17:24 2004/04/09 17:25

- 4 ((creat\$3 or mak\$3) near4 partition) same storage same software same image same copy\$3 - 23 (partition\$3) same storage same software same image same copy\$3 - 23 (partition\$3) same storage same software same image same copy\$3 - 37 (Partition adj Magic) (partition\$3) same USPAT;	2004/04/09
storage same software same image same copy\$3 (partition\$3) same storage same software same image same copy\$3 (partition adj Magic) (partition\$3) same US-PGPUB; EPO; JPO; DERWENT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	
copy\$3 (partition\$3) same storage same software same image same copy\$3 (partition\$3) same storage same software same image same copy\$3 (partition adj Magic) (partition\$3) same (partition adj Magic) (partition\$3) same (partition adj Magic) (partition\$3) same	
DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; IBM_TDB USPAT;	
- 23 (partition\$3) same storage same software same image same copy\$3 (partition\$3) same storage same software uspAT; us-PGPUB; EPO; JPO; DERWENT; IBM_TDB uspAT;	
- 23 (partition\$3) same storage same software same image same copy\$3 us-pgpuB; EPO; JPO; DERWENT; IBM_TDB uspart; and the same same software same software uspart; us-pgpuB; EPO; JPO; DERWENT; IBM_TDB uspart; uspart	
same image same copy\$3 US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	2004/04/09
EPO; JPO; DERWENT; IBM_TDB - 37 (Partition adj Magic) (partition\$3) same USPAT;	1
DERWENT; IBM_TDB - 37 (Partition adj Magic) (partition\$3) same USPAT;	19:05
- 37 (Partition adj Magic) (partition\$3) same USPAT;	
- 37 (Partition adj Magic)(partition\$3) same USPAT;	
[37] (Partition adj Magic) (partition\$3) same USPAT;	
	2004/04/12
storage same software same image same US-PGPUB;	10:54
сору\$3	
DERWENT;	
IBM TDB	
- 2 vsame USPAT;	2004/04/09
US-PGPUB;	19:05
EPO; JPO;	
DERWENT;	
IBM TDB	
- 2 (Partition adj Magic) same (partition \$3) USPAT;	2004/04/09
same storage same software same image US-PGPUB;	19:06
same copy\$3 EPO; JPO;	
DERWENT;]
IBM TDB	
	2004/04/00
	2004/04/09
same_storage_same_softwareUS-PGPUB;	F9:05
ĒPO; JPO;	
DERWENT;	
IBM_TDB	
- 2 (Partition adj Magic)same(partition\$3) USPAT;	2004/04/09
same_storageUS_PGPUB;	<u> 19:05 </u>
EPO; JPO;	
DERWENT;	
IBM_TDB	
2 (Partition adj Magic) same storage same USPAT;	2004/04/09
software same image same copy\$3 US-PGPUB;	19:06
EPO; JPO;	į į
DERWENT;	
IBM_TDB	
- 2 (Partition adj Magic) same storage same USPAT;	2004/04/09
software US-PGPUB;	19:06
EPO; JPO;	1
DERWENT;	
IBM TDB	
	2004/04/09
- 2 (Partition adj Magic) same storage USPAT;	
	19:06
- 2 (Partition adj Magic) same storage USPAT;	19:06
- 2 (Partition adj Magic) same storage USPAT; US-PGPUB;	19:06
- 2 (Partition adj Magic) same storage USPĀT; US-PGPUB; EPO; JPO; DERWENT;	19:06
- 2 (Partition adj Magic) same storage USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	
- 2 (Partition adj Magic) same storage USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB - 16 (Partition adj Magic) USPĀT;	2004/04/09
- 2 (Partition adj Magic) same storage USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB;	
- 2 (Partition adj Magic) same storage USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2004/04/09
- 2 (Partition adj Magic) same storage USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/09
- 2 (Partition adj Magic) same storage USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/09 19:09
- 2 (Partition adj Magic) same storage USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	2004/04/09 19:09 2004/04/09
- 2 (Partition adj Magic) same storage USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; US-PGPUB;	2004/04/09 19:09
- 2 (Partition adj Magic) same storage USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO;	2004/04/09 19:09 2004/04/09
- 2 (Partition adj Magic) same storage USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB - 16 (Partition adj Magic) USPAT; US-PGPUB; EPO; JPO; DERWENT; - 27 powerquest same partition\$3 USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/09 19:09 2004/04/09
- 2 (Partition adj Magic) same storage USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; - 16 (Partition adj Magic) USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; - 27 powerquest same partition\$3 USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/09 19:09 2004/04/09 19:10
- 2 (Partition adj Magic) same storage USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB - 16 (Partition adj Magic) USPAT; US-PGPUB; EPO; JPO; DERWENT; - 27 powerquest same partition\$3 USPAT; US-PGPUB; EPO; JPO; DERWENT;	2004/04/09 19:09 2004/04/09 19:10 2004/04/09
- 2 (Partition adj Magic) same storage USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; - 27 powerquest same partition\$3 USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; - 1 ("5,675,769").PN. USPAT	2004/04/09 19:09 2004/04/09 19:10 2004/04/09 19:40
- 2 (Partition adj Magic) same storage USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; - 16 (Partition adj Magic) USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; - 27 powerquest same partition\$3 USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/04/09 19:09 2004/04/09 19:10 2004/04/09 19:40 2004/04/09
- 2 (Partition adj Magic) same storage USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT - 1 ("5,675,769").PN. USPAT	2004/04/09 19:09 2004/04/09 19:10 2004/04/09 19:40 2004/04/09 19:41
- 2 (Partition adj Magic) same storage USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT - 1 ("5,675,769").PN. USPĀT - 1210 creat\$3 near3 partition USPĀT	2004/04/09 19:09 2004/04/09 19:10 2004/04/09 19:40 2004/04/09 19:41 2004/04/09
- 2 (Partition adj Magic) same storage USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT - 1 ("5,675,769").PN. USPĀT - 210 creat\$3 near3 partition USPĀT - 4 (creat\$3 near3 partition) same software same copy\$3	2004/04/09 19:09 2004/04/09 19:10 2004/04/09 19:40 2004/04/09 19:41 2004/04/09 19:44
- 2 (Partition adj Magic) same storage USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT - 1 ("5,675,769").PN. USPĀT - 1210 creat\$3 near3 partition USPĀT - 6 (creat\$3 near3 partition) same software same copy\$3 - 2 (creat\$3 near2 partition) same software	2004/04/09 19:09 2004/04/09 19:10 2004/04/09 19:40 2004/04/09 19:41 2004/04/09 19:44 2004/04/09
- 2 (Partition adj Magic) same storage USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT - 1 ("5,675,769").PN. USPAT - 1210 creat\$3 near3 partition USPAT - 6 (creat\$3 near3 partition) same software same copy\$3 (creat\$3 near2 partition) same software same copy\$3	2004/04/09 19:09 2004/04/09 19:10 2004/04/09 19:40 2004/04/09 19:41 2004/04/09 19:44
- 2 (Partition adj Magic) same storage USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPĀT - 1 ("5,675,769").PN. USPĀT - 1210 creat\$3 near3 partition USPĀT - 6 (creat\$3 near3 partition) same software same copy\$3 - 2 (creat\$3 near2 partition) same software	2004/04/09 19:09 2004/04/09 19:10 2004/04/09 19:40 2004/04/09 19:41 2004/04/09 19:44 2004/04/09

-				
	7	(creat\$3 near2 partition) same software	USPAT;	2004/04/09
1		same copy\$3	US-PGPUB;	19:47
			EPO; JPO;	[
			DERWENT;	
			IBM TDB	
-	102	(creat\$3 near2 partition) same software	USPAT;	2004/04/09
ł		(orodoto model parorotom, want	US-PGPUB;	19:47
ł			EPO; JPO;	
			DERWENT;	
			IBM TDB	
1_	2	(creat\$3 same (Partition adj Magic) same	USPAT;	2004/04/12
	2	(partition\$3)) same storage same software	US-PGPUB;	10:55
]			EPO; JPO;	10.00
		same image same copy\$3	DERWENT;	
			IBM TDB	
	0	(th) (Dortition add Magic) same	USPAT;	2004/04/12
-	8	(creat\$3 same (Partition adj Magic) same	US-PGPUB;	10:56
		(partition\$3))	EPO; JPO;	10.56
1	i			
	1		DERWENT;	
		/	IBM_TDB	2004 (24 (32
_	8	(creat\$3 same (Partition adj Magic) same	USPAT;	2004/04/12
		(partition\$3)) and (Partition adj Magic)	US-PGPUB;	11:05
			EPO; JPO;	
		· ·	DERWENT;	
			IBM_TDB	0000110015
-	5	(creat\$3 same (Partition adj Magic) same	USPAT;	2004/04/12
	 	(partition\$3))- and (Partition adjMagic)	-US-PGPUB;	11:22
T .	·	and PowerQuest and (drive adj Image)	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	6	(Partition adj Magic) and PowerQuest and	USPAT;	2004/04/12
		-(-drive-adj-Image)	US-PGPUB;	16:35
			EPO; JPO;	
			DERWENT;	
İ			IBM_TDB	
-	43	built-to-order	USPAT;	2004/04/12
ŀ			US-PGPUB;	14:15
			EPO; JPO;	
		•	DERWENT;	
	l		TDM MDD	
-	i		IBM_TDB	
	2	built-to-order and (software near2 image)	USPAT;	2004/04/12
1	2	built-to-order and (software near2 image)		2004/04/12 14:15
	2	built-to-order and (software near2 image)	USPAT;	1
	2	built-to-order and (software near2 image)	USPAT; US-PGPUB;	1
	2	built-to-order and (software near2 image)	USPAT; US-PGPUB; EPO; JPO;	14:15
_	2		USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	1
_			USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	14:15
_		(Partition adj Magic) and (drive adj	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	14:15
_		(Partition adj Magic) and (drive adj	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	14:15
_		(Partition adj Magic) and (drive adj	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	14:15
_	- 6	(Partition adj Magic) and (drive adj Image)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	14:15
_	- 6	(Partition adj Magic) and (drive adj Image)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	14:15 2004/04/12 16:35
-	- 6	(Partition adj Magic) and (drive adj Image)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	14:15 2004/04/12 16:35 2004/04/13
-	- 6	(Partition adj Magic) and (drive adj Image)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	14:15 2004/04/12 16:35 2004/04/13
-	- 6	(Partition adj Magic) and (drive adj Image)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DEPWENT;	14:15 2004/04/12 16:35 2004/04/13
-	46	(Partition adj Magic) and (drive adj Image) latency with (fiber adj optics)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	14:15 2004/04/12 16:35 2004/04/13
-	- 6	(Partition adj Magic) and (drive adj Image)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DEPWENT;	14:15 2004/04/12 16:35 2004/04/13 13:14
-	46	(Partition adj Magic) and (drive adj Image) latency with (fiber adj optics) latency with (fiber adj optics)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	14:15 2004/04/12 16:35 2004/04/13 13:14 2004/04/13 13:14
-	46	(Partition adj Magic) and (drive adj Image) latency with (fiber adj optics) latency with (fiber adj optics) (creat\$3 near3 (partition or drive)) and	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT	14:15 2004/04/12 16:35 2004/04/13 13:14 2004/04/14
	46	(Partition adj Magic) and (drive adj Image) latency with (fiber adj optics) latency with (fiber adj optics)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; USPAT; US-PGPUB;	14:15 2004/04/12 16:35 2004/04/13 13:14 2004/04/13 13:14
	46	(Partition adj Magic) and (drive adj Image) latency with (fiber adj optics) latency with (fiber adj optics) (creat\$3 near3 (partition or drive)) and	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	14:15 2004/04/12 16:35 2004/04/13 13:14 2004/04/14
_	46	(Partition adj Magic) and (drive adj Image) latency with (fiber adj optics) latency with (fiber adj optics) (creat\$3 near3 (partition or drive)) and	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT	14:15 2004/04/12 16:35 2004/04/13 13:14 2004/04/14
	46 1 32	(Partition adj Magic) and (drive adj Image) latency with (fiber adj optics) latency with (fiber adj optics) (creat\$3 near3 (partition or drive)) and (boot\$3 near2 disk) and NT	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	14:15 2004/04/12 16:35 2004/04/13 13:14 2004/04/14 10:05
	46	(Partition adj Magic) and (drive adj Image) latency with (fiber adj optics) latency with (fiber adj optics) (creat\$3 near3 (partition or drive)) and (boot\$3 near2 disk) and NT ((creat\$3 near3 additional)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	14:15 2004/04/12 16:35 2004/04/13 13:14 2004/04/14 10:05 2004/04/14
	46 1 32	(Partition adj Magic) and (drive adj Image) latency with (fiber adj optics) latency with (fiber adj optics) (creat\$3 near3 (partition or drive)) and (boot\$3 near2 disk) and NT	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	14:15 2004/04/12 16:35 2004/04/13 13:14 2004/04/14 10:05
	46 1 32	(Partition adj Magic) and (drive adj Image) latency with (fiber adj optics) latency with (fiber adj optics) (creat\$3 near3 (partition or drive)) and (boot\$3 near2 disk) and NT ((creat\$3 near3 additional)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	14:15 2004/04/12 16:35 2004/04/13 13:14 2004/04/14 10:05 2004/04/14
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-	1	("6205579").PN.	USPAT	2004/09/05
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Multitasking without comprimise: a virtual machine evolution Grzegorz Czajkowski, Laurent Daynés

October 2001 ACM SIGPLAN Notices, Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications, Volume 36 Issue 11

Eull-text-available: pdf(220.97 KB)

Additional Information: full citation, abstract, references, citings, index .terms

The multitasking virtual machine (called from now on simply MVM) is a modification of the Java virtual machine. It enables safe, secure, and scalable multitasking. Safety is achieved by strict isolation of application from one another. Resource control augment security by preventing some denial-of-service attacks. Improved scalability results from an aggressive application of the main design principle of MVM: share as much of the runtime as possible among applications and replicate everything el ...

Keywords: Java virtual machine, application isolation, native code execution, resource control

Application isolation in the Java Virtual Machine

Grzegorz Czajkowski

October 2000 ACM SIGPLAN Notices, Proceedings of the 15th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications, Volume 35 Issue 10

Full text available: pdf(217.49 KB)

Additional Information: full citation, abstract, references, citings, index terms

To date, systems offering multitasking for the Java™ programming language either use one process or one class loader for each application. Both approaches are unsatisfactory. Using operating system processes is expensive, scales poorly and does not fully exploit the protection features inherent in a safe language. Class loaders replicate application code, obscure the type system, and non-uniformly treat 'trusted' and 'untrusted' classes, which leads to subtle, but nevertheless, potenti ...

Keywords: Java Virtual Machine, application isolation, multitasking

3

An implementation scheme for a virtual machine monitor to be realized on user -

microprogrammable minicomputers

B. D. Shriver, J. W. Anderson, L. J. Waguespack, D. M. Hyams, R. A. Bombet October 1976 **Proceedings of the annual conference**

Full text available: pdf(654.60 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

A virtual machine monitor allows several different operating systems to run concurrently on the same machine. This paper presents the description of a virtual machine monitor and its support structure which can be implemented on a microprogrammable minicomputer or a distributed network of such machines. In our approach, all storage, transformational, input, and output resources of the system are accessed through a mapping mechanism. The design and implementation methodology for an actual re ...

Virtual machine monitors: Xen and the art of virtualization

Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf Neugebauer, Ian Pratt, Andrew Warfield

October 2003 Proceedings of the nineteenth ACM symposium on Operating systems principles

Full text available: 🌇 pdf(168.76 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Numerous systems have been designed which use virtualization to subdivide the ample resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense of performance. Others sacrifice security or functionality for speed. Few offer resource isolation or performance guarantees; most provide only best-effort provisioning, risking denial of service. This paper presents Xen, an x86 virtual machine monit ...

Keywords: hypervisors, paravirtualization, virtual machine monitors

5 On the relationship between virtual machines and emulators

Efrem G. Mallach

March 1973 Proceedings of the workshop on virtual computer systems

Full text available: pdf(422.48 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The subjects of virtual machines and emulators have been treated as entirely separate. The purpose of this paper is to show that they have much in common. Not only do the usual implementations have many shared characteristics, but this commonality extends to the theoretical concepts on which they are based; the concepts of memory mapping and I/O operation simulation are discussed to emphasize this. The paper then discusses structural issues, and points out why the question of instruction se ...

6 Small virtual machines: A survey

Lloyd I. Dickman

March 1973 Proceedings of the workshop on virtual computer systems

Full text available: pdf(396.47 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

It has been demonstrated that virtual machines can be successfully implemented on large computer systems. They can also be implemented on small computer systems ("minicomputers"). The paper will show this, and at the same time discuss the various architectural features by which virtual machine implementation is achieved. Examining features which make machines "small", we find architectural limitations. These machines are usually byte or word addressable w ...



7 The virtual machine and user process model used inmoses2: a microcomputer operating system environment simulator

Robert E. England

December 2001 Journal of Computing Sciences in Colleges, Volume 17 Issue 2

Full text available: pdf(39.30 KB) Additional Information: full citation, abstract, references, index terms

This paper discusses the design and development of two primary components of Moses2, a virtual computing environment for use in undergraduate operating systems courses. Moses2 is an entirely original work produced and refined by the author over the last twelve years in conjunction with teaching senior level operating systems courses. In the Moses2 environment, students run and test original kernel emulator programs while they develop these programs as course projects. The features of the system ...

Incommunicado: efficient communication for isolates
Krzysztof Palacz, Jan Vitek, Grzegorz Czajkowski, Laurent Daynas
November 2002 ACM SIGPLAN Notices, Proceedings of the 17th ACM SIGPLAN
conference on Object-oriented programming, systems, languages, and
applications, Volume 37 Issue 11

Full text available: pdf(386.23 KB) Additional Information: full citation, abstract, references

Executing computations in a single-instance of safe language-virtual-machine can-improve—performance and overall platform scalability. It also poses various challenges. One of them is providing a fast inter-application communication mechanism. In addition to being efficient, such a mechanism should not violate any functional and non-functional properties of its environment, and should also support enforcement of application-specific security—policies. This paper explores the design and implement ...

Keywords: application isolation, inter-application communication

9 Fault tolerant distributed services

Allan D. Griefer, H. Raymond Strong

January 1988 Proceedings of the seventh annual ACM Symposium on Principles of distributed computing

Full text available: pdf(1.12 MB)

Additional Information: full citation, references, citings, index terms

10 Machine organization for multiprogramming

Peter Wegner

January 1967 Proceedings of the 1967 22nd national conference

Full text available: pdf(1.63 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This paper is intended as an introduction to some of the basic concepts of multiprogramming for readers who wish to study the more specialized literature in this field. It attempts to develop a framework for the discussion of multiprogramming which motivates the forms of machine organization used in current multiprogramming systems. The key requirement in multiprogramming systems is that information structures be represented in a hardware-independent form until the moment of execution, rath ...

11 Termination in language-based systems

Algis Rudys, Dan S. Wallach

May 2002 ACM Transactions on Information and System Security (TISSEC), Volume 5 Issue 2

Full text available: pdf(355.43 KB) Additional Information: full citation, abstract, references, citings, index

http://portal.acm.org/results.cfm?coll=ACM&dl=ACM&CFID=26749195&CFTOKEN=6... 9/6/04

Language run-time systems are increasingly being embedded in systems to support run-time extensibility via mobile code. Such systems raise a number of concerns when the code running in such systems is potentially buggy or untrusted. Although sophisticated access controls have been designed for mobile code and are shipping as part of commercial systems such as Java, there is no support for terminating mobile code short of terminating the entire language run-time. This article presents a c ...

Keywords: Applets, Internet, Java, resource control, soft termination, termination

12 A data-flow approach to multitasking on CRAY X-MP computers

Steve Reinhardt
December 1985 ACM SIGOPS Operating Systems Review

December 1985 ACM SIGOPS Operating Systems Review , Proceedings of the tenth ACM symposium on Operating systems principles, Volume 19 Issue 5

Full text available: pdf(475.21 KB) Additional Information: full citation, references, citings, index terms

13 Migration: Luna: a flexible Java protection system



Chris Hawblitzel, Thorsten von Eicken

December 2002 ACM SIGOPS Operating Systems Review, Volume 36 Issue SI

Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references

Extensible Java systems face a difficult trade-off between sharing and protection. On one hand, Java's ability to run different protection domains in a single virtual machine enables domains to share data easily and communicate without address space switches. On the other hand, unrestricted sharing blurs the boundaries between protection domains, making it difficult to terminate domains and enforce restrictions on resource usage. Existing solutions to these problems restrict sharing in an ad-hoc ...

14 Performance evaluation of the Orca shared-object system



Henri E. Bal, Raoul Bhoedjang, Rutger Hofman, Ceriel Jacobs, Koen Langendoen, Tim Rühl, M. Frans Kaashoek

February 1998 ACM Transactions on Computer Systems (TOCS), Volume 16 Issue 1

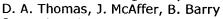
Full text available: pdf(179.39 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Orca is a portable, object-based distributed shared memory (DSM) system. This article studies and evaluates the design choices made in the Orca system and compares Orca with other DSMs. The article gives a quantitative analysis of Orca's coherence protocol (based on write-updates with function shipping), the totally ordered group communication protocol, the strategy for object placement, and the all-software, user-space architecture. Performance measurements for 10 parallel applications ill ...

Keywords: distributed shared memory, parallel processing, portability

15 Actra-a multitasking/multiprocessing smalltalk





September 1988 ACM SIGPLAN Notices, Proceedings of the 1988 ACM SIGPLAN workshop on Object-based concurrent programming, Volume 24 Issue 4

Full text available: pdf(366.82 KB) Additional Information: full citation, citings, index terms

16 Evaluation of Java thread performance on two different multithreaded kernels

Yan Gu, B. S. Lee, Wentong Cai

January 1999 ACM SIGOPS Operating Systems Review, Volume 33 Issue 1

Full text available: pdf(721.12 KB) Additional Information: full citation, abstract, index terms

Modern programming languages and operating systems encourage the use of threads to exploit concurrency and simplify program structure. An integral and important part of the Java language is its multithreading capability. Despite the portability of Java threads across almost all platforms, the performance of Java threads varies according to the multithreading support of the underlying operating system and the way Java Virtual Machine maps Java threads to the native system threads. In this paper, ...

17 System R: relational approach to database management

M. M. Astrahan, M. W. Blasgen, D. D. Chamberlin, K. P. Eswaran, J. N. Gray, P. P. Griffiths, W. F. King, R. A. Lorie, P. R. McJones, J. W. Mehl, G. R. Putzolu, I. L. Traiger, B. W. Wade, V. Watson

June 1976 ACM Transactions on Database Systems (TODS), Volume 1 Issue 2

Full text available: pdf(3.18 MB)

Additional Information: full citation, abstract, references, citings, index terms

System R is a database management system which provides a high level relational data interface. The systems provides a high level of data independence by isolating the end user as much as possible from underlying storage structures. The system permits definition of a variety of relational views on common underlying data. Data control features are provided, including authorization, integrity assertions, triggered transactions, a logging and recovery subsystem, and facilities for maintaining ...

Keywords: authorization, data structures, database, index structures, locking, nonprocedural language, recovery, relational model

18 Launching the new era

Kazuhiro Fuchi, Robert Kowalski, Koichi Furukawa, Kazunori Ueda, Ken Kahn, Takashi Chikayama, Evan Tick

March 1993 Communications of the ACM, Volume 36 Issue 3

Full text available: pdf(3.45 MB)

Additional Information: full citation, references, index terms, review

19 Extended architecture and Hypervisor performance

Carl J. Young

March 1973 Proceedings of the workshop on virtual computer systems

Full text available: pdf(235.44 KB) Additional Information: full citation, abstract, citings, index terms

This paper is a brief summary of the impact that architecture extensions to hardware and software have upon the design and performance of software Hypervisors that are intended to provide the extended function in a virtual machine environment.

²⁰ Report of session on transferability

Maria F. Weller

January 1973 ACM SIGPLAN Notices , Proceeding of ACM SIGPLAN - SIGOPS interface meeting on Programming languages - operating systems, Volume 8 Issue 9

Full text available: Topological pdf(519.71 KB) Additional Information: full citation, index terms

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